

CLAIMS

What is claimed is:

- 1        1.    A method for distributing frames, comprising:  
2        assigning a plurality of consecutive data frames to  
3        different data packets, each data packet including data  
4        frames that are sufficiently far apart such that loss of any  
5        particular data packet distributes impact that the loss has  
6        on quality of recovered data.
- 1        2.    The method of claim 1, further comprising:  
2        packing said each data packet with assigned frames; and  
3        sending the data packets to a destination node.
- 1        3.    The method of claim 1, wherein said each data  
2        packet includes data frames that are at least two frames  
3        apart.
- 1        4.    The method of claim 1, wherein said data frames are  
2        audio frames.
- 1        5.    The method of claim 1, wherein said assigning  
2        distributes data frames into different packets at a uniform  
3        interval.

1        6.    The method of claim 5, wherein the uniform interval -  
2 is 5.

1        7.    The method of claim 1, wherein said plurality of  
2 consecutive data frames includes at least two frames.

1        8.    The method of claim 1, wherein said assigning a  
2 plurality of consecutive data frames includes assigning a  
3 current data frame of said plurality of consecutive data  
4 frames to a packet that is at least two packets away from a  
5 packet that contains a previous data frame.

1        9.    A method for distributing data frames of a  
2 multimedia entity, comprising:  
3        distributing the data frames among a plurality of data  
4 packets, each data packet including the data frames from  
5 different parts of the multimedia entity, where said data  
6 frames from different parts are sufficiently spread out among  
7 said plurality of data packets to reduce the impact of a  
8 packet loss on quality of recovered data compared to packing  
9 consecutive data frames into sequential data packets.

1        10. The method of claim 9, wherein said multimedia  
2 entity includes a video frame.

1        11. The method of claim 9, wherein said multimedia  
2 entity includes a graphical image.

1        12. The method of claim 9, wherein said sufficiently  
2 spreading out includes packing a data packet with data frames  
3 that are at least two frames apart.

1        13. The method of claim 9, wherein said plurality of  
2 data packets includes at least five packets.

1        14. A frame distribution system, comprising:  
2        a processor configured to assign a plurality of  
3 consecutive data frames to different data packets, each data  
4 packet including data frames that are sufficiently far apart  
5 such that loss of any particular data packet distributes  
6 impact that the loss has on quality of recovered data; and  
7        a packetizer to pack a current frame into a data packet  
8 assigned by said processor.

1        15. The system of claim 14, wherein said data frames  
2 are audio frames.

1        16. The system of claim 14, wherein said each data  
2 packet includes data frames that are at least two frames  
3 apart.

1        17. A data packetizing system, comprising:  
2        a frame receiving element arranged to receive a sequence  
3 of data frames including consecutive parts of a segmented  
4 data entity; and  
5        a frame assigning element arranged to assign a current  
6 data frame in said sequence of data frames to a data packet,  
7 where said frame assigning element assigns the current data  
8 frame to the data packet different from a data packet  
9 containing a previous data frame.

1        18. The system of claim 17, wherein said segmented data  
2 entity is a video frame.

1        19. The system of claim 17, wherein said segmented data  
2 entity is an audio sequence.

1        20. The system of claim 17, further comprising:  
2        a frame packing element to pack data frames into  
3 assigned data packets.